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Please Call (702) 324-6463 or email sales@nitevis.com

AN/PVS-4 Gen 2 Night Vision Weaponsight

SM-D-850302 / NSN: 5855-01-017-7366

(PVS-4/TVS-5 Sold Out)

INFORMATION PURPOSES ONLY-CLEARANCE ITEMS LISTED BELOW

Accessories

- Bed Vaults
- Console Vaults
- Gun Vaults
- Flashlights
- PVS-7 Parts
- PVS-14 Parts
- Scopecoat Covers
- Stun Guns
- SureFire Lights
- TruckVault's
- Wilcox Products

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- Aimpoint Red Dot
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- ELCAN Optical
- EOTech Sights
- LASER's
- NV Weaponsights

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- GloWands
- Guardians
- Lazer Sticks
- Pegasus
- Phoenix
- VIP Visual/IR
- 9 Volt Series

NV Binoculars

- AN/PVS-15 M953
- AN/PVS-31 BNVD
- ANVIS-6/9 M949
- BMNVD
- BNVD
- BNVS-15
- BTS Thermal
- GPNVG
- G15
- PVS-7B/D
- SENTINEL
- STEINER Binoculars

Combat ID

- Beacons-Markers
- IFF-67 Blood Markers
- IFF-980H SCHIMS
- IR-US Flags
- Vehicle CIDV Panels
- Warrior GloTape

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- ANVIS Goggles
- AN/PVS-7B/D
- AN/PVS-14B/D
- AN/PVS-15
- ATN G15
- ATN NVG7
- ATN PVS7
- ATN PS15
- BNVD
- ENVG Fusion
- SENVG Fusion
- SENTINEL BNVS

Infrared Lighting

- Aviation Lip Lights
- Beacons/Strobes
- Blocking Filters
- Finger Lights
- Flashlights
- LASER Illuminators
- Spotlights
- Vehicle Lights

LASER's

- AR-2A
- ATPAL

CLEARANCE ACCESSORIES:

- PVS-4-BA-123 CR123 Battery Adapter = **Sold Out**
- PVS-4-BA-AA AA Battery Adapter = **Sold Out**
- PVS-4-PSC Padded Soft Case = \$45.00
- PVS-4-MNT-CH M16 Carry Handle Mount & Bolt = **Sold Out**
- PVS-4-MNT-DLOC Picatinny Mount = **Sold Out**
- PVS-4-MNT-LT100 LaRue LT100 Picatinny Mount = **Sold Out**
- PVS-4-MNT-M2S M2 (Used) Mount, Slotted Groove = \$100.00
- PVS-4-MNT-M2S M2 (New) Mount, Slotted Groove = \$300.00
- PVS-4-MNT-M60 M60 (Used) Mount = \$100.00
- PVS-4-MNT-M60 M60 (New) Mount = \$250.00
- PVS-4-MNT-M2P M2 (New) Mount, Picatinny Rail Top = \$250.00

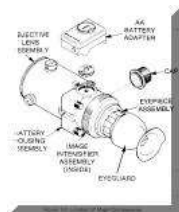
- PVS-4-EYE Rubber Eyeguard = \$60.00 **Sold Out**
- PVS-4-DTF Day Light Lens Cover \$15.00 (20) Available
- PVS-4-RET-DIO Reticle Diode = \$50.00 = **Sold Out**

Various Reticle's that are currently available

- PVS-4-RET-M72 M72 LAW Reticle = \$70.00 (1) Available
- PVS-4-RET-M2 M2 Reticle = **Sold Out**
- PVS-4-RET-M242 M242 Reticle = \$15.00 (40) Available
- PVS-4-RET-CHEVRON Chevron Reticle = \$70.00 = **Sold Out**



CCR/ORCA Registered Veteran Owned Small Business
Dealers/Resellers Welcome CAGE: 36BD2



One of the most popular systems ever, and for good reason. Current U.S. military issue, the versatile 2nd Generation starlight **AN/PVS-4** is a workhorse! It's the choice of agencies and teams requiring state-of-the-art, high resolution vision capability at night. The **AN/PVS-4** mounts on virtually any assault or sporting firearm, as well as to both video and photographic cameras for unmatched cost-effectiveness. You can use our Photo Adapter to connect it to a 35mm SLR's step-up ring, so there is no need for a costly relay lens assembly for 35mm photography.

You can use the **AN/PVS-4** with an optional relay lens unit on any C-mount video camera, using the optional Bi-Ocular eyepiece for extended visual surveillance. Take the same "modular" system with a Weapon Mount adapter, choose Reticle cell patterns for either .308 cal., .223 cal., or just plain cross hairs and mount it on the weapon of your choice for tactical needs. **AN/TVS-5** unit show at right (click image to enlarge).



The **AN/PVS-4's** are designed to recover rapidly enough from muzzle flash to allow the user to see the round hit the target and maintain uniform image illumination during changing light levels. The projection-type Reticle is internally adjustable for Windage, Elevation, and Reticle Brightness.



With a wide field of view, the **AN/PVS-4** can detect traces of light normally unseen by the naked eye and electronically reproduces the near infrared image onto the eyepiece, with an adjustable illuminated reticle to take accurate aim. This rugged, and portable battery-powered **Night Vision Device** can be tripod mounted for surveillance & scanning.

One of the new items available for the **AN/PVS-4** is the DLOC-P4, which has replaced the discontinued ARMS#20 mount. This handy mount allows you to quickly install/remove the **AN/PVS-4**

[ATPIAL-C](#)
[COBL-1](#)
[DBAL-A2](#)
[DBAL-A3](#)
[DBAL-A4](#)
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[DBAL-I2](#)
[DBAL-PL](#)
[DBAL-RL](#)
[ITAL-Classic](#)
[OTAL-A](#)
[OTAL-Classic](#)
[SBAL-PL](#)
[SBAL-RL](#)

Monoculars

[AN/PVS-14B/D](#)
[AN/PVS-18 M983](#)
[GT14](#)
[DSNVG Fusion](#)
[ENVIS M703](#)
[Gen 1, Gen 2](#)
[LRS Surveillance](#)
[MICRO-Monocular](#)
[Mini-Monocular](#)
[Odin Thermal](#)

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[Thermal-Eye X320](#)
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[CNVD-T3](#)
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[FLIR ThermoSight](#)
[FLIR T70 ACTS-SR](#)
[FLIR T75 ACTS-LR](#)
[FLIR T-90 TaNS](#)
[IR Hunter MK II](#)
[IR Hunter MK III](#)
[M2124 CNVD](#)
[PVS-4 | TVS-5](#)
[PAS-13G LTWS](#)
[PVS-22 Clip-On](#)
[PVS-27 MUNS](#)
[PVS-30-KAC](#)
[STEINER Scopes](#)
[US Optics](#)
[Zero Lens](#)

for either a Weaver or Picatinny rail without having to worry about losing your zero. With great reviews, we are happy to offer this optional accessory item so please be sure to ask about it when ordering.

They are available for \$229.00 and they are Black. The photo at right looks OD Green, but that's just a lighting issue with the camera.



We currently have a rare new condition M2 Mount (bottom

left) and new condition M60 Mount (bottom right), and several used models available.



Order yours today!

- * Multi-Purpose "Modular" Medium-Range Starlight System
- * 2nd Gen. 25mm MCP Image Intensifier Tube (Gen 3 Upgrades Available)
- * Shock and Water Resistant
- * 35mm SLR's or Camcorder Adjustable Projection-type
- * Illuminated Reticle Internal 1/4 mil.
- * Micro-click Windage/Elevation Adjustment
- * Mounts to most Military, Paramilitary & Sporting weapons
- * Rapid-recovery Automatic Brightness Control
- * 115mm Catadioptric Objective Lens
- * Mil. Spec. AN/PVS-4 system "Active Mode"--Detects Infrared Light
- * Wide 14° FOV (Field of View) , 3.8° Magnification
- * 1/4-20 Threaded Tripod socket
- * Built in -Bi-Ocular Eyepiece Available (Sorry, this item is not available through KERIF)
- * Rugged, Lightweight Night Vision System
- * 1 YEAR WARRANTY



The AN/PVS-4 amplifies reflected light such as moonlight, starlight, and sky glow so that the viewed scene becomes clearly visible to the operator. The sight does not emit visible or infrared light (except from the eyepiece) that can be detected by the enemy. When mounted on individual weapons, the AN/PVS-4 will provide the capability for delivery of accurately aimed fire during hours of darkness. The system is easily installed and removed from the weapon using suitably designed brackets which require no modification to the weapon. A protective objective daylight cover provides the capability for daylight bore-sighting of the weapon.



The AN/PVS-4 is primarily designed for use with the M14 and M16 Rifles, M60 Machine Gun, M249 Squad Automatic Weapon, M72A1 Rocket Launcher and M203 Grenade Launcher.

Helpful Info

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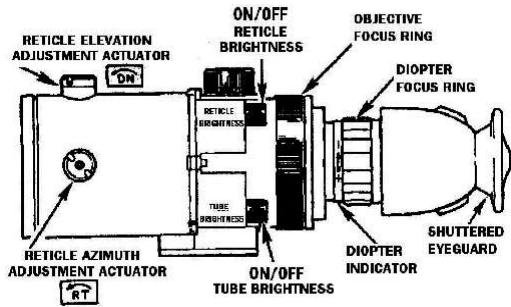
[Night Vision Reticle](#)

Operation

Operation of the device is through two controls located on the left side of the tube housing. The lower control is an on/off switch for the image intensifier tube which also controls the gain of the tube, allowing the operator to control image brightness.

The upper control is an on/off switch for the illuminated reticle and secondarily allows the brightness of the reticle to be adjusted.

Elevation and Windage adjustment is made through turrets located on the objective lens. Each click equals 1/4 MOA (Minute of Angle).



Day Light Lens Cover

The AN/PVS4 is equipped with a Day Light Lens Cover that allows day time sighting in of the units or for daytime operation of the sight. It may be necessary to use this adapter under



extremely bright nighttime conditions. The adapter consists of three hole sizes spaced evenly around the periphery, which passes by 3 larger aperture holes and 3 dark glass lenses to allow for 6 different levels of light reduction into the scope.



As a result, the AN/PVS-4 can be used in lighting conditions ranging from midday-sun in the desert, through to very-bright-moonlight and high levels of urban lighting. Under moonlight or lower conditions, the AN/PVS-4 can be used without the adaptor and the ABC (Automatic Brightness Controls) will reduce the gain, although the image may be too bright for the reticle to show correctly.



When the Daylight Lens Cover is used, the image of the AN/PVS-4 is reduced and appears somewhat Triangular. This is not a defect.

The AN/PVS-4 Individual Weapon Night Sight is a portable, battery operated, electro-optical instrument used for observation and aimed fire of weapons at night. Fielding is two per infantry squad. Original Gov't acquisition cost = \$4,815.00



To increase your aiming accuracy even further, the easiest, but typically the most expensive way is to use **LASER's** mounted to the top or side of your weapon and sighted in. KERIF Night Vision is proud to offer several variations of LASER Aiming Systems that are guaranteed to work for your setup. Please call for more details on what Laser systems may be available to you since some are Restricted to Federal Agencies only and require End User Agreements.

IDEAL FOR

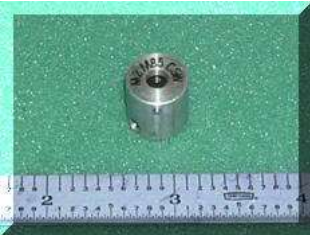
- * Precision night time and low light weapon sighting
- * Street Gang Observation
- * Counterterrorism
- * Drug Enforcement Covert work
- * Patrol and Security
- * Search and Rescue Operations
- * Night Pursuit
- * Varmint & Predator Hunting / Feral Hog Control

Infrared Light-Source Detection

You can trust KERIF Night Vision to get you the most for your money and to be there should something go wrong. We don't just sell you a product, then wish you well; we take the time to talk with you personally on the phone, before, during, and after the sale to make sure you are 100% satisfied, not 99.99%! Yes, we answer our phones and respond to emails almost immediately. Don't hesitate to draw on our real world Military, Federal SWAT, and Law Enforcement experience, coupled with Technical Engineering, Infrared Lighting and Night Vision backgrounds to figure out the best solution to your problem. If we don't have what you need, we will do our best to find you a company that does.

System Technical Specifications	
Tube Type:	25mm Gen 2 or Gen 3
Resolution:	32 - 36 lp/mm
Objective Lens in mm:	95mm PVS-4
Focus Parameters:	16 yards (15m) to infinity
FOV PVS-4/NL-84:	14.5° Circular
FOV TVS-5/NL-87:	9° Circular
Magnification PVS-4:	3.6X
Magnification TVS-5:	5.8X
Illuminated Reticle:	Range-finding 5.56mm/7.62mm Combo
Reticle Adjustment:	±2.5 (in 1/4 mil increments)
Weight PVS-4/NL-84:	3.79 lbs (1.72kg)
Weight TVS-5/NL-87:	8.09 lbs (3.67kg)
Size: inches/mm PVS-4:	9.53"(L) x 4.49"(W) x 4.61"(H) / 242mm(H) x 114mm(W) x 117mm(H)
Dioptr Focus:	+3 to -6 Diopter's
Battery Source:	(2) AA , BA-1567/U, BA-5567/U, BA-3058/U
Battery Life:	20 - 30 hours typical
Voltage:	(2) x 1.5VDC
Shelf Life:	9 Months
Operating Temp:	-65°F to 125°F (-54°C to 52°C)

Detection Range PVS-4:		
Starlight:	☐	437 yards (400 meters)
Moonlight:	☐	656 yards (600 meters)
Detection Range TVS-5:		
Starlight:	☐	875 yards (800 meters)
Moonlight:	☐	1,312 yards (1,200 meters)
Brightness Control:	☐	Manual
Illumination Required:	☐	Overcast starlight to moonlight

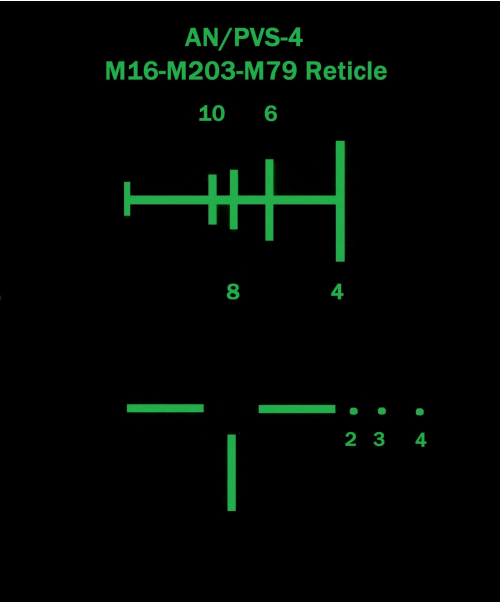


Reticles - Informational purposes only - Not all reticles available through KERIF

One of the capabilities unique to the AN/PVS-4 is that it has field-changeable reticles and there are many PVS-4 enthusiasts that collect all the reticle styles. **If you have a unique reticle or additional information pertaining to one of the reticles listed below, please let us know so others can benefit. Trades also considered.**

By replacing the reticle, the AN/PVS-4 is able to provide service to a wider variety of weapons than any other Weaponsight

Reticle Options INFORMATION PURPOSES ONLY



M16/M203/M79

The M16 reticle features a range-estimator and a three-point cross-hair that provides an aiming point for close range, 200m and 400m.

The same reticle is also used for the M203 and the M79.

a. Reticle cell for M16A1/A2, M203, and M79 weapons

- (1) Vertical lines at top of reticle indicate range (in hundreds of meters) of a 6 foot tall standing person. Measurement is made from the horizontal line to the top (or bottom) of each vertical line for the range indicated.
- (2) The horizontal line of the range scale indicates the range (in hundreds of meters) of a 20-foot target such as a tank viewed from the side. Place the left edge of the tank at the left side of the horizontal line. The range to the tank is read from the scale at the right edge of the tank. The width of the tank is approximately half the length, so replacement of the tank width on the ranging symbol is read as one-half the range scale value.

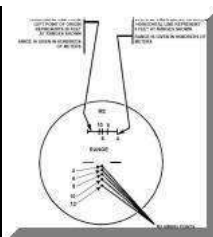
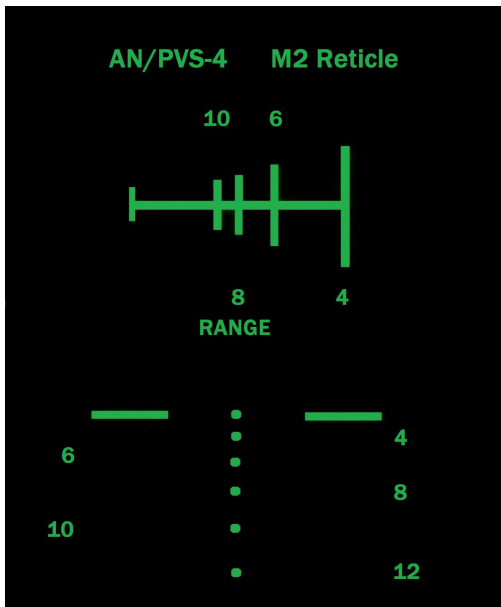
(3) Aiming points for the M16A1/A2, M203 and M79 grenade launchers are shown as small dots in a horizontal row to the right of the reticle center. Aiming points are for 200, 300, and 400 meters.

(4) The M16A1/A2 aiming point for ranges out to 250 meters is the center of the three straight lines. The top of the vertical line is the aiming point for 400 meters, and the bottom of the line is the aiming point for 600 meters.

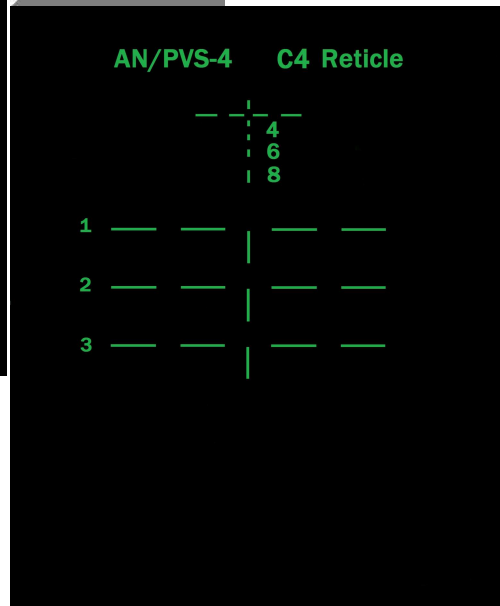
(5) Locate target, estimate range and place the proper aiming point on the target. (For grenade launchers, also adjust the bracket to the proper elevation.)

M2

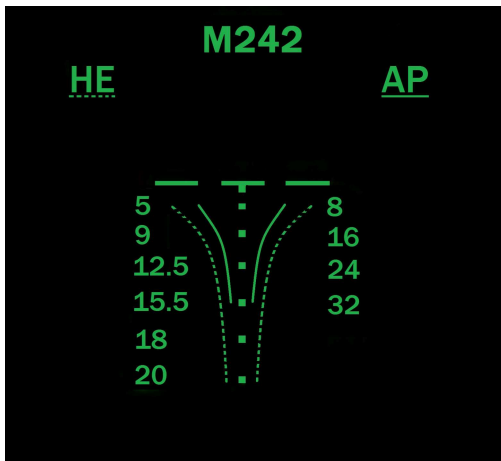
The M2 is similar to the M60/M14//M249 reticle but contains points for ranges out to 1,200m.



C4



M242



High Explosive or Armor Piercing BDC\'s for the M242

Informational purposes only - The following reticles are NOT available through KERIF at this time



The crosshair is the most basic reticle for the AN/PVS-4 and is available as either:

- *A Simple Crosshair
- *A MIL-DOT Crosshair
- *An Aimpoint Crosshair



Not official, but here\'s what I have for this Israeli(?) reticle. It\'s got stadia lines, and drop compensation.

It\'s been stated that this reticle is probably 3 purposed:

- 1) 5.56x45
- 2) 7.62x51
- 3) Some sort of heavy weapon (recoilless rifle)

I suspect that the cross hair is 100m, the second dot is 200, then 400, 600, and 800 meters as marked.

The **TOP** of each vertical line is where you aim for one caliber, and the **BOTTOM** of each vertical line is where you aim for the other caliber.

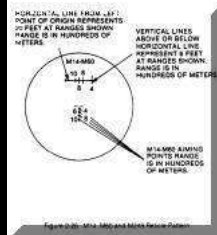
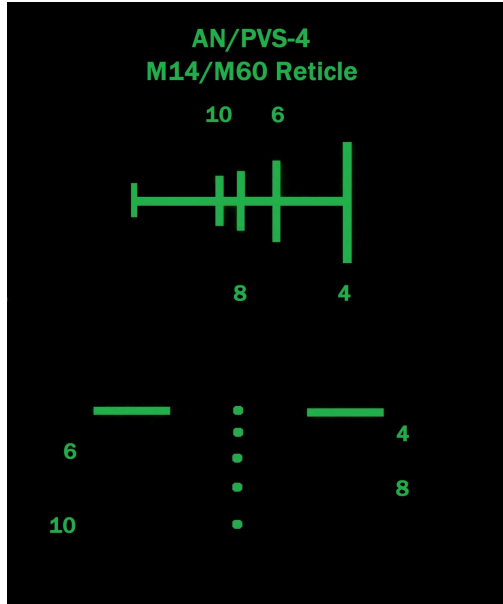
The stadia are for moving objects at close range [probably].

The 1, 2, and 3 horizontal lines are probably for a heavy weapon, and the stadia are for leading armor.

5.56 (SS109) would be at the top of each vertical dash.

7.62 at 150-155Gr would be at the bottom of each of the vertical dashes.

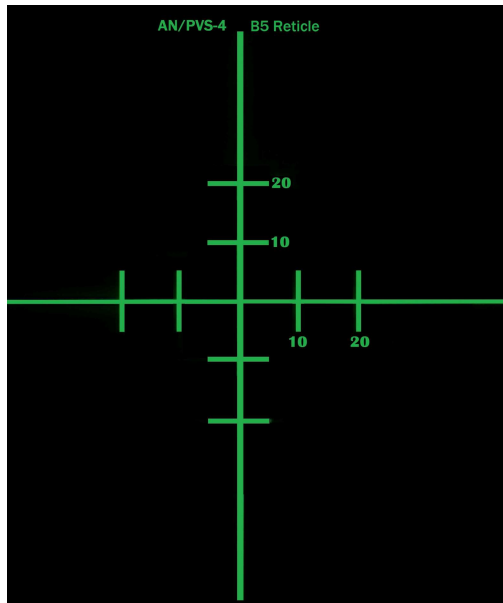
This reticle was also used by the Israeli's on their 16's shooting 22 LR's. Which makes sense as it tracks with CCI Std vol ammo very well.



M60/M14/M249

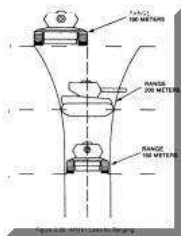
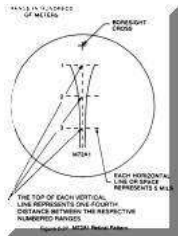
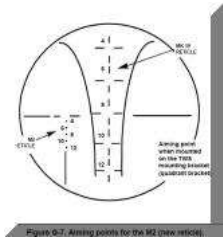
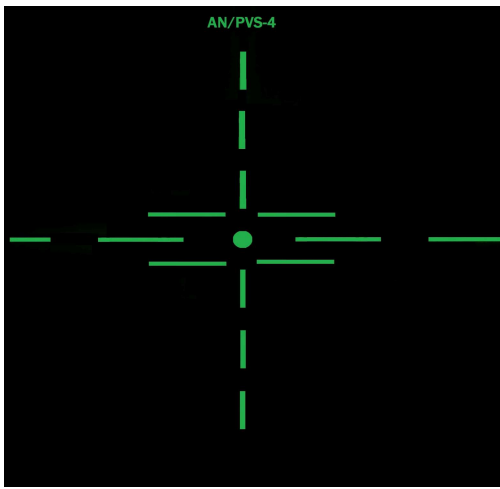
The M60 reticle is similar to the M16 reticle but contains points instead of crosshairs for 200m, 400m and 600m. This reticle is used for the M14 and M249 also.

The M14 rifle and M60 machine-gun aiming points for ranges from 400 to 1000 meters are shown as small dots in a vertical line down through the center of the reticle. Use the center of the two horizontal lines for 0-250 meters. M249 Machinegun aiming points for ranges 300-800 meters are shown as small dots in a vertical line down through the center of the reticle. Use the center of the two horizontal lines for 0-300 meters. The four and six hundred meter aiming points are used for ranges indicated. The 800 meter aiming point is used for firing at 700 meters and the 1000 meter aiming point is used to fire the M249 at 800 meters. Locate target, estimate range, adjust the weapon to place the proper aiming point on the target.



B5

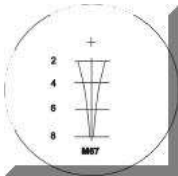




M72A1

The M72A1 reticle contains a rangefinder with marks for 100, 200, and 300 meters. The range to a 20-foot target such as a tank viewed from the side is determined by placing the sight so that the rear and front of the target just fit between the curved vertical lines. In reading the range from the scale, the width of the tank is approximately one-half the tank's length, so placement of the tank width between the curved vertical lines is read as one-half the range scale value. The bottom of each straight vertical line in the center of the reticle corresponds to an additional 25 meters. The length of each horizontal line represents 5 mils and the space between lines represent 5 mils.

Locate the target between the curved lines to estimate the range and place the proper aiming point on the target.



M67 Recoilless Rifle

The M67 reticle is similar to the M72A1 reticle, but contains range marks for 200, 400, 600, and 800 meters. The bottom of each vertical line in the center of the reticle corresponds to an additional 100 meters. The length of each horizontal line represents 5 mils and the space between lines represent 5 mils. Locate the target between the curved lines to estimate the range and place the proper aiming point on the target.



F4960 Stinger

The Stinger reticle is very different in that it's a rear-mounted illuminated reticle, which is built into the tube and positioned on top of the screen, so both the screen and reticle are in focus. It also allows red-on-green illumination which makes the reticle stand out. The top circle is the Range-Finding circle and the lower three locations are for sighting.

The AN/PVS-4 is one of the most widely manufactured night vision sights in the world, with many countries making their own version either under license to the US or as a variant.

Part Number (Information Only)	NSN	Description
SM-D-850200-1	1240-01-045-5496	Carrying and Storage Case
SM-D-850220-1	5855-01-045-5482	Mounting Bracket Assembly, M2
SM-D-850202-1	1240-01-043-8432	Carrying Bag
SM-D-850080-1	6650-01-045-5487	Daylight Cover Assembly
SM-D-850110-1	5855-01-147-6024	Battery Housing Assembly
SM-D-850400-1	5855-01-046-7273	Eye-piece Assembly
SM-D-850120-1	5855-01-039-2859	Eye-guard Assembly, Optical Instrument
SM-D-850130-1	6650-01-045-5495	Objective Assembly, 105mm
SM-D-850440-1	5998-01-046-7276	Diode Assembly
SM-D-850490-1	6650-01-043-8431	Reticle Cell Assembly, M2/M85
SM-D-850490-8	5855-01-045-5493	Reticle Cell Assembly, M60
SM-D-850490-9	6650-01-045-5492	Reticle Cell Assembly, Forward Observer
call	call	Image Intensifier MX9644
SM-D-850340-1	5855-01-046-7272	Mounting Bracket Assembly

SM-D-850240-1	5855-01-045-5489	Mounting Bracket Assembly, M193, M85, Tripod
SM-D-850230-1	5855-01-045-5486	Mounting Bracket Assembly, M40
SM-D-850406	5855-01-149-2267	Eyeiece Cell
SM-D-850403	n/a	Diopter Focusing Ring
MILB4336351ZE1	7920-00-205-0565	Lens Dusting Brush
SM-D-850408	5855-01-165-2177	Lock Ring
SM-D-850425	5855-01-039-2856	Objective Focus Ring
SM-D-850427	5855-01-039-2842	Objective Focus Stop Ring
SM-D-850402-1	5855-01-165-2153	Diopter Focus Ring Assembly
SM-D-850409	5855-01-039-2857	Retainer
SM-D-8500075	n/a	Identification Plate
MS9021-041	5330-00-729-4655	Preformed Packing
MS9068-040	5330-00-764-1787	Preformed Packing
SM-C-850094	6160-01-039-2905	Battery Cover
SM-B-850312	n/a	Split Lock Ring
SM-D-850430	5855-01-271-6615	Housing
SM-D-850071-5	1240-01-045-0048	Mounting Adapter
MS9021-033	5330-00-702-4725	Preformed Packing
SM-D-850310-1	5855-00-138-2386	Image Intensifier
SM-C-850304	6135-00-485-7402	Dust Cap
SM-D-850407	5855-01-157-5110	Eyeiece Housing
SM-B-850517	5330-01-264-6404	Quad Ring
SM-C-850093	5360-01-038-2224	Battery Spring
SM-C-850119	5970-01-136-4463	Battery Compartment Insulator
SM-D-850116-1	5355-01-038-2207	Electrical Control Knob
SM-C-850114-1	5935-01-046-7280	Connector Assembly
SM-D-850112-1	5855-01-165-2155	Housing, Battery and Electrical Controls
SC-B-635332	n/a	Crimp Lug
SM-D-850133	5855-01-045-5497	Retainer Lens 1 and 2
SM-D-850145	6650-01-165-2160	Lens No. 5 Objective
SM-D-850146	6650-01-165-2157	Lens No. 6 Objective
SM-C-850136	5855-01-169-1706	Lens 6 Retainer
SM-D-850144	6650-01-165-2169	Lens No. 4 Objective
SM-D-850143	n/a	Lens No. 3 Objective
SM-D-850142	5855-01-165-2156	Lens No. 2 Objective
SM-B-850518	5855-01-165-2161	Stray Light Mask
SM-D-850141	6650-01-045-5484	Lens No. 1 Objective
SM-C-850160	5855-01-165-2158	Reticle Assembly Retainer
SM-D-850161	5340-01-038-2241	Reticle Projector Cap
SM-D-850210-1	6650-01-165-2163	Reticle Projector Assembly
SM-D-850132-1	5855-01-165-2162	Objective Housing
SM-D-850153-2	5855-01-276-4496	Reticle Projector Support
SM-D-850212-1	5855-01-165-2164	Projector Lens Assembly, 105mm
SM-C-850156	5365-01-273-1183	Retaining Insulator
SM-C-850155	5970-01-271-6618	Housing Insulator
SM-D-850490-3	6650-01-045-5494	Reticle Cell Assembly, M40
SM-D-850490-6	6650-01-045-5488	Reticle Cell Assembly, M139
SM-D-850165-5	n/a	Detent Down Retainer
SM-D-850162-1	5855-01-045-5483	Detent Actuator
SM-C-850167	3040-01-039-2849	Clicker Detent
SM-D-850163-1	5306-01-165-2159	Reticle Adjusting Rod
SM-D-850472	n/a	Detent Right Retainer

TRANSPORTATION CHARACTERISTICS / LIMITATIONS: None.**HISTORICAL BACKGROUND:**

Initial engineering development of the AN/PVS-4 was undertaken by Optic Electronic Corporation of Dallas, Texas, in 1975 as a replacement for the Vietnam War era AN/PVS-2 Starlight Scope.

In 1976, the first production contract was awarded for 47,074 units, and first deployed in 1978.

16,927 more units were produced between 1985 and 1989 and 24,046 more units produced between 1990 and 1992.

By 2002, more than 150,000 units had been produced within the United States alone.

Although production has ceased, as recently as 2008 the US Military was still obtaining parts to both repair AN/PVS-4s and convert AN/PVS-4s to AN/TVS-5As. It is still presently also upgrading AN/PVS-4s to AN/PVS4As also.

During the Gulf War, the AN/PVS-4 was widely deployed on a variety of weapons. The Gulf War represented the first war in which ground combat operations continued both day and night through the use of Night Vision Devices.

Although more modern equipment was available during the Iraq War, the AN/PVS-4 was still in active use.

4QFY92 Transition management from PEO IEW, PM NVEO to CECOM, SMD.

Aug 95 Transitioned management from CECOM SMD to CECOM DMM Level III.

REQUIREMENTS DOCUMENT:**TYPE CLASSIFICATION:** Standard approved FY77.

A. DESCRIPTION: THE AN/PVS-4, NIGHT VISION SIGHT, INDIVIDUAL SERVED WEAPON IS A SECOND GENERATION STARLIGHT SYSTEM. THIS ITEM IS APPROPRIATE FOR INCLUSION IN AR 310-34. ITS CHARACTERISTICS ARE AS FOLLOWS:

- (1) WEIGHT: 8.5 LBS.
- (2) RANGE: 600M-MOONLIGHT, 400M-STARLIGHT.
- (3) MAGNIFICATION: 3.8X.
- (4) FIELD OF VIEW: 15 DEGREES CIRCULAR.

B. CAPABILITIES: THE AN/PVS-4 CAN BE EITHER MOUNTED OR HAND HELD. IT IS BOTH SMALLER AND LIGHTER THAN THE FIRST GENERATION SYSTEM; BUT THE BIGGEST ADVANTAGE IS THAT IT DOES NOT HAVE A TENDENCY TO "WHITE-OUT" WHEN A BRIGHT LIGHT, SUCH AS A MUZZLE FLASH, FLARE, OR FIRE IS PRESENT ON THE BATTLEFIELD, AS DID THE FIRST GENERATION SYSTEM.

C. EMPLOYMENT: THE AN/PVS-4 IS EMPLOYED PRIMARILY TO PROVIDE A MEANS FOR ACCURATELY AIMED INDIVIDUAL WEAPONS FIRE AT NIGHT. ITS SECONDARY MISSION IS FOR USE IN FORWARD AREAS AS A HAND-HELD, NIGHT OBSERVATION DEVICE TO DETECT, IDENTIFY, AND OBSERVE FRIENDLY OR ENEMY OPERATIONS. WITH SUITABLE BRACKETS, IT WILL BE MOUNTED ON THE M14, M16, M60, M67, M72A1, AND M79 INDIVIDUAL WEAPONS.

D. BASIS OF ISSUE:

- (1) ONE PER COMBAT ENGINEER SQUAD.
- (2) ONE PER ENGINEER RECON TEAM IN THE DIVISION ENGINEER BATTALION.
- (3) ONE PER 7.62MM MACHINEGUN IN INFANTRY UNITS.
- (4) ONE PER M60 MACHINEGUN MOUNTED ON A MILITARY POLICE WEAPONS PLATFORM.
- (5) ONE PER TWO 7.62MM MACHINEGUNS IN ALL OTHER UNITS EXCEPT RANGER PLATOONS AUTHORIZED THE AN/TVS-5.
- (6) ONE PER 5.56MM MACHINEGUN (SAW) AND M60 MACHINEGUN FORWARD OF THE DIVISION REAR BOUNDARY AND IN SELECTED HIGH-PRIORITY ORGANIZATIONS (I.E. PERSHING, NUCLEAR SECURITY, ETC.) BEHIND THE CORPS AREA.
- (7) ONE PER TWO M60 MACHINEGUNS AND 5.56MM MACHINEGUNS LOCATED IN THE CORPS REAR AREA.
- (8) ONE PER RIFLEMAN NOT EQUIPPED WITH NIGHT-VISION GOGGLES IN INFANTRY SQUADS.

E. POWER REQUIREMENTS: TWO 2.7V DC DISPOSABLE BATTERIES (BA-1567/UV).

F. TRANSPORTATION REQUIREMENTS: CARRIED BY INDIVIDUAL WEAPONS OPERATOR.

G. PERSONNEL/MAINTENANCE IMPACTS:

- (1) OPERATOR:
 - (A) CREW SIZE/MOS: AS DESIGNATED BY THE UNIT COMMANDER.
 - (B) TRAINING REQUIREMENTS (MOS/GENERAL): FAMILIARIZATION.
- (2) MAINTAINERS:
 - (A) UNIT LEVEL MAINTENANCE: OPERATOR.
 - (B) IDS/IGS-LEVEL MAINTENANCE: MOS 35E

H. SPECIAL NOTES: THE AN/PVS-4 COMES WITH MOUNTING BRACKETS AND RETICLES FOR M16 AND M60 WEAPONS. RETICLES AND MOUNTS FOR USE WITH OTHER WEAPONS MUST BE SEPARATELY REQUISITIONED. A CARRYING BAG AND BATTERY ADAPTER FOR LOW-TEMPERATURE OPERATIONS CAN ALSO BE REQUISITIONED. THIS ITEM IS APPROPRIATE FOR INCLUSION IN AR 71-13.

The AN/PVS-4 uses a 25mm screw-type variable-gain Image Intensifier tube. Power is supplied by a single 2.7 volt mercury battery, type: BA-1567/U, BA-5567/U or BA-3058/U although two can be connected. The AN/PVS-4A can also use two common AA batteries or a single CR123 Battery in an optional housing designed to fit the AN/PVS-4. AN/PVS-4s still in use today are typically upgraded to AA batteries even if they have not been upgraded to a third generation tube.

MX-9644 Image Intensifier Tube

Much of the success and longevity of the AN/PVS-4 was due to the MX-9644 Image Intensifier tube. To make the tube more usable with simple optics, a second-generation MCP (Micro-Channel Plate) based image intensifier was adapted to an electrostatic inverter, similar to a first-generation image intensifier.

The result was that the tube produced an inverted image, simplifying the optical requirements of any night vision device that used it.

Although not a hybrid tube (Gen1 and Gen2 in the same tube housing) it nonetheless produced a gain of around 20,000 making it suitable for use under starlight only conditions and even overcast starlight conditions in remote locations.

The MX-9644 was later replaced by the MX-11620 Third-generation tube, which is a direct replacement for devices that were designed to use the MX-9644.

The MX-9644 tube continued in the form of the MX9644/UV which was a 2nd generation tube although evidence exists that a further hybrid tube (Gen 3 tube attached by FO to a Gen1 tube) was developed under this specification to provide far more gain, improved S/N and lower EBI. Hybrid tubes are capable of gains well in excess of 100,000 times.

The ITT F4849 and ITT F4960 (MX-11619 and MX-11620) were also developed which use a 25mm Gen3 tube. As these tubes were proximity focused, it was necessary to add a Fiber-Optic inverter to the tube to extend the optical length of the device and the Gen 3 photocathode was also mounted, in some cases, on a Fiber Optic plate rather than the usual Gen 3 glass plate to match the focal point of the AN/PVS-4 optics. These tubes provided significant performance increase in gain but very little in the way of resolution.

Two other tube developments that occurred but were not widely manufactured included optical relays to invert the image both in front and behind a Gen 3 25mm tube. This allowed for a significant increases in both tube resolution and performance over the Fiber Optic based 3rd generation tubes and involved a lens assembly being housed in a container that matched the MX-9644 tube exactly.

Related development for driving based devices included Fiber Optic expanders that magnified the image and could be retrofitted to driving scopes that also used this tube

Part Number	NSN	Description
SM-D-850110-1	5855-01-147-6024	Battery Housing Assembly
SM-D-850120-1	5855-01-039-2859	Eyeguard Assembly
SM-D-850315-1	6650-01-252-5428	Daylight Cover
SM-D-850400-1	5855-01-046-7273	Eyepiece Assembly
SM-D-850116-1	5355-01-038-2207	Switch Knob
SM-D-850500-1	5388-01-039-2834	M16 Mounting Knob Assembly
SM-D-850490-2	6650-01-039-2853	M60/M14 Reticle
SM-D-850490-7	6650-01-039-2854	M16/M203/M249 Reticle
SM-D-850480-1	5855-01-040-3793	Hard Case
SM-D-850482-2	5855-01-039-2830	Soft Case/Textile Bag
A3009873	5855-01-152-0506	AA Battery Adapter
ARMS#20	n/a	Throw Lever Mount
call	call	Image Intensifier MX9644
SM-D-850440-1	5998-01-046-7276	Diode Assembly
SM-D-850390-1	5342-01-039-2833	M14 Mount
12598108	1240-01-451-4195	Weaver Picatinny Rail Mount
SM-D-850315-1	6650-01-252-5428	Daylight Cover Assembly
SM-D-850320-1	5855-01-039-2850	Objective Assembly, 95mm
SM-D-850275	n/a	Identification Plate
MS9021-041	5330-00-729-4655	Preformed Packing
SM-D-850110-1	5855-01-147-6024	Battery Housing Assembly
SM-B-850312	n/a	Split Lock Ring
SM-D-850400-1	5855-01-046-7273	Eyepiece Assembly
SM-S-850120-1	n/a	Eyeguard Assembly
SM-D-850271-1	1240-01-039-2847	Mounting Adapter
SM-D-850310-1	5855-00-138-2386	Image Intensifier, MX9644
SM-D-850430	5855-01-271-6615	Housing
SM-D-850407	5855-01-157-5110	Eyepiece Housing
SM-D-850406	5855-01-149-2267	Eyepiece Cell
SM-D-850403	n/a	Diopter Focusing Ring
SM-D-850408	5855-01-165-2177	Lock Ring
SM-D-850425	5855-01-039-2856	Objective Focus Ring
SM-D-850402-1	5855-01-165-2153	Diopter Focus Ring Assembly
SM-D-850409	5855-01-039-2857	Retainer
SM-C-850411-1	6650-01-039-2858	Lens No. 1
SM-C-850421	5855-01-165-2170	Spacer No. 1
SM-C-850410-1	6650-01-151-4051	Doublet, Lenses 2 and 3
SM-C-850422	5855-01-165-2171	Spacer No. 2
SM-C-850419-1	6650-01-165-2154	Doublet, Lenses 4 and 5
SM-C-850423	5855-01-165-2172	Spacer No. 3
SM-C-850416-1	n/a	Lens No. 6
SM-C-850424	5855-01-165-2173	Spacer No. 4
SM-C-850420-1	6650-01-165-2148	Doublet, Lenses 7 and 8
SM-C-850094	6160-01-039-2905	Battery Cover
SM-C-850093	5360-01-038-2224	Battery Spring
SM-C-850119	5970-01-136-4463	Battery Compartment Insulator

SM-D-850116-1	5355-01-038-2207	Electrical Control Knob
SM-C-850114-1	5935-01-046-7280	Connector Assembly
SM-B-850115	5305-01-174-6076	Threaded Support
SM-D-850112-1	5855-01-165-2155	Battery Housing
SM-D-850489-1	5905-01-046-7277	Varistor Switch
RCR07G474JR	5905-00-275-8285	Fixed Composition Resistor
MS21209C1-15	5325-00-680-3762	Insert
SC-B-635332	n/a	Crimp Lug
SM-B-850473	5940-01-047-4005	Connector
SM-B-850461	6150-01-216-7176	Terminal Lug
SM-D-850323	5855-01-039-2851	Retainer, Lens 1 and 2
SM-B-850521	5940-01-047-1565	Terminal
SM-D-850295	n/a	Lens No. 5, Objective
SM-D-850294	n/a	Lens No. 4, Objective
SM-D-850293	6650-01-271-8239	Lens No. 3, Objective
SM-D-850292	5855-01-135-9664	Lens No. 2, Objective
SM-D-850450-1	6650-01-135-3769	Reticle Projector Assembly
SM-D-850291	6650-01-039-2855	Lens No. 1, Objective
SM-D-850160	n/a	Reticle Assembly Retainer
SM-D-850161	5340-01-038-2241	Reticle Projector Cap
SM-D-850322-1	5855-01-276-4495	Objective Lens Housing
SM-D-850153-2	5855-01-276-4496	Reticle Projector Support
SM-D-850452-1	n/a	Projector Lens Assembly
SM-D-850440-1	5998-01-046-7276	Diode Assembly
SM-C-850155	5970-01-271-6618	Housing Insulator
SM-D-850490-2	6650-01-039-2853	Reticle Cell Assembly, M60, M14
SM-D-850490-4	5855-01-039-2843	Reticle Cell Assembly, M67
SM-D-850490-5	6650-01-039-2844	Reticle Cell Assembly, M72A1
SM-D-850490-7	6650-01-039-2854	Reticle Cell Assembly, M16, M16/XM203, M79
SM-D-850165-5	n/a	Detent Down Retainer
SM-D-850162-2	3020-01-046-7274	Detent Actuator
SM-D-850167	n/a	Clicker Detent
SM-D-850163-2	3040-01-278-2138	Reticle Adjusting Rod
SM-D-850166-1	5340-01-274-7361	Detent Right Retainer
SM-B-850517	n/a	Quad Ring
SM-C-850426	n/a	Nut, Retaining, Focus Ring
SM-D-850427-1	n/a	Objective Focus Stop Ring
SM-D-850489-2	n/a	Switch, Varistor, 1K
SM-C-850328	n/a	Spacer, Lens 5 and 6
SM-D-850296	n/a	Lens No. 6 Objective
SM-C-850326	n/a	Retainer, Lens 6
SM-D-850325	n/a	Retainer Cone, Lens 4
SM-D-850324	n/a	Retainer, Lens 3
SM-C-850327	n/a	Spacer, Lens 1 and 2
SM-D-850151-2	n/a	Housing, Reticle Projector Ball
SM-B-850472	n/a	Connector, Female
SM-D-850152-2	n/a	Holder Assembly, Ball Retaining
SM-C-850158	n/a	Spring, Extension
SM-C-850156	n/a	Insulator, Retaining
SM-C-850154-2	n/a	Ring Contact Assembly, Intermediate

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